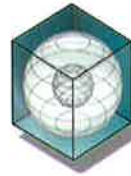


MOU/CO-OP Energy Efficiency Programs Reporting Form

For: Electric Cooperatives that had retail sales of more than 500,000 megawatt hours in 2005, and Municipally-Owned Utilities

Form# 50-814



Energy
Systems
Laboratory



This form is intended to partially fulfill the reporting requirement. Please provide all the information requested below.

Purpose of this document: As mandated by the 82nd Legislature (2011), beginning April 1, 2012, all electric cooperatives that had retail sales of more than 500,000 megawatt hours in 2005 and all municipally owned utilities must report each year to the State Energy Conservation Office (SECO), on a standardized form developed by SECO, information regarding the combined effects of the energy efficiency activities of the electric cooperative/utility from the previous calendar year, including the annual goals, programs enacted to achieve those goals, and any achieved energy demand or savings goals. [Sections 39.9051 and Section 39.9052 of the Utilities Code].

Data for a consecutive 12-month period.	Beginning: <u>Jan 01, 2014</u>	Ending: <u>Dec 31 2014</u>
<u>TRI-COUNTY Electric Cooperative, Inc.</u>		
<small>MOU/Co-op</small>		
<u>David Kliment, Manager of Member Services</u>		
<small>Contact Person (Name & Title)</small>		
<u>600 N W Parkway, Azle TX 76020</u>		
<small>Address</small>		
<u>1-800-367-8232</u>	<u>Dkliment@TCECTexas.com</u>	
<small>Phone</small>	<small>Email</small>	

Please attach a copy of the detailed report containing the below information.

Energy Efficiency Program	Estimated Electric Peak Demand Savings (kW)	Estimated Electricity Use Savings (kWh)	Estimated Natural Gas Increase From Fuel Switching – If Applicable <small>Specify Units: <input type="checkbox"/> CCF <input type="checkbox"/> MCF <input type="checkbox"/> Therms</small>	Other Program Performance Metric
EERP CFL Bulbs - 1,573	15.73	83,369	N/A	
EERP LED Bulbs - 946	9.46	50,138	N/A	
EERP Low Flow Shower Heads - 19	.42	3,534	NA	
EERP Low Flow Faucet Aerator - 40	.28	1,920	N/A	
EERP Electric Water Heater Blanket - 37	.37	3,700	N/A	
EERP Hot Water Pipe Insulation - 23	.09	920	N/A	
EERP HVAC Tune-Up - 475	109.25	292,776	N/A	
EERP Energy Star New Home - 175	99.75	446,250	N/A	
EERP Attic Insulation Upgrade R-38 - 12	4.96	16,188	N/A	
EERP New 15 SEER Heat Pump - 36	4.28	14,040	N/A	
EERP New 16+ SEER Heat Pump - 64	16.13	52,800	N/A	
EERP Commercial Fixture Upgrade - 132,803w	106.24	451,530	N/A	
EERP Other Programs - 35	.87	4,975	N/A	
Totals:	367.83	1,422,140		

Email completed forms to SECO at SB924.Reporting@cpa.state.tx.us

For more information on Senate Bill 924 Requirements visit: <http://seco.cpa.state.tx.us/energy-reporting/utilities.php>

**Brazos Electric Cooperative
EERP Measure Summary
For the EERP Year(s) Presented as of 12/31/14**

EERP Year		2014	
		Data	
Member Coop	Sum of CFL Bulbs	1,573	946
	Sum of Low Flow Shower Head	19	40
	Sum of Low Flow Faucet Aerator	40	37
	Sum of Water Heater Blanket	40	37
Tri-County	Sum of HVAC Tune-up	475	475
	Sum of Energy Star Home - 15% More Efficient	175	175
	Sum of R38+ A/C & Resistance Htg	12	12
	Sum of RO-R8 Upgrade to	12	12
Grand Total	Sum of 15 SEER Heat Pump (2013)	36	36
	Sum of 16 SEER Heat Pump (2013)	64	64
	Sum of Fixture Upgrade (per watt savings)	132,803	132,803
	Sum of Energy Star Dishwasher	4	4
	Sum of High Efficiency Water Heater	2	2
	Sum of 8 Bulb Replacement 32w to 25w	0	0
	Sum of T-8 Bulb Replacement 32w to 25w	0	0
	Sum of Start-up Expenses	0	0
	Sum of Adjustments	0	0
	Sum of Total \$	\$242,317	\$242,317
		\$0	\$0
		\$0	\$0
		\$0	\$0

Total Incentive	1,573	946	19	40	37	23	475	175	12	0	0	36	64	132,803	4	29	2	0	0	242,317
	\$ 1.75	\$ 1.75	\$ 15.00	\$ 7.50	\$ 22.50	\$ 15.00	\$ 150.00	\$ 550.00	\$ 300.00	\$ 150.00	\$ 300.00	\$ 150.00	\$ 300.00	\$ 300.00	\$ 120	\$ 435	\$ 50	\$ -	\$ -	\$ -
	\$ 2,753	\$ 1,656	\$ 285	\$ 300	\$ 833	\$ 345	\$ 71,250	\$ 96,250	\$ 3,600	\$ -	\$ -	\$ 5,400	\$ 19,200	\$ 39,841	\$ 120	\$ 435	\$ 50	\$ -	\$ -	\$ 242,317
	1.14%	0.68%	0.12%	0.12%	0.24%	0.14%	29.40%	39.72%	1.49%	0.00%	0.00%	2.23%	7.92%	16.44%	0.05%	0.18%	0.02%	0.00%	0.00%	100.00%
Estimated kWh and kW Annual Impact																				
Annual kWh Savings	53	53	186	48	100	40	616.37	2550	1349	390	825	390	825	n/a	163	137	175	7.5	13.1	13.1
	0.01	0.01	0.022	0.007	0.01	0.004	0.23	0.57	0.413	0.119	0.252	0.119	0.252	n/a	0.085	0.017	0.02	0.004	0.007	0.007
	7	7	10	10	10	10	10	20	20	18	18	18	18	15	9	12	14	10	10	10
	83,369	50,138	3,534	1,920	3,700	920	292,776	446,250	16,188	-	-	14,040	52,800	451,530	652	3,973	350	-	-	-
Annual kWh Savings % of Total kWh	5.86%	3.53%	0.25%	0.14%	0.26%	0.06%	20.59%	31.38%	1.14%	0.00%	0.00%	0.99%	2.71%	31.75%	0.05%	0.28%	0.02%	0.00%	0.00%	0.00%
	15.73	9.46	0.42	0.28	0.37	0.09	109.25	99.75	4.96	-	-	4.28	16.13	106.24	0.34	0.49	0.04	-	-	-
	4.28%	2.57%	0.11%	0.08%	0.10%	0.03%	29.70%	27.12%	1.35%	0.00%	0.00%	1.16%	4.38%	28.88%	0.09%	0.13%	0.01%	0.00%	0.00%	0.00%
	393	237	29	30	83	35	7,125	4,813	180	-	-	300	1,067	2,656	13	36	4	-	-	-
Rebate Amortized																				
Life kWh Savings \$/kWh	583583	350966	35340	19200	37000	9200	2927757.5	8925000	323760	0	0	252720	950400	4,757,003	5868	47676	4900	0	0	0
	\$0.0047	\$0.0047	\$0.0081	\$0.0156	\$0.0225	\$0.0375	\$0.0243	\$0.0108	\$0.0111	#DIV/0!	#DIV/0!	\$0.0214	\$0.0202	\$0.0084	\$0.0204	\$0.0091	\$0.0102	#DIV/0!	#DIV/0!	#DIV/0!

Est Annual Oper Hours

1270 Elem Schools
3400 Office
5000 Colleges
4600 Grocery
2388 Warehouse



TRI-COUNTY

Electric Cooperative, Inc.

"A Commitment to Service and Savings"

Central Headquarters Office / 600 N W Parkway / Azle, Tx 76020 / Ph:(817)444-3201 or 1-800-367-8232 Fax # (817)444-3542

Southwest District Office / 1623 Weatherford Hwy. / Granbury, Tx 76048 / Ph:(817)279-7010 / Fax # (817)279-7012

Northeast District Office / 4740 Keller Hicks Rd. / Fort Worth, Tx 76244 / Ph:(817)431-1541 / Fax # (817)431-9680

B-K District Office / 419 N. Main, P O Box Drawer 672 / Seymour, Tx 76380 / Ph: (940)888-3441 / Fax # (940)888-3820

TRI-COUNTY Electric Cooperative, Inc. Energy Efficiency Rebate Program Year 2014

Energy Efficiency Rebate Program

Purpose

Brazos Electric's Energy Efficiency Rebate Program ("EERP") is designed to encourage member cooperatives ("Members") to promote energy efficiency measures that will reduce energy consumption and support a Participating Member's individual energy innovation¹ goals. Brazos Electric's EERP rewards energy efficient practices by paying incentive rebates to Participating Members when retail members install more efficient lighting, HVAC, insulation and other various qualifying equipment that reduces energy consumption.

Introduction

After reviewing an independent consultant's recommendation of energy efficiency programs in January 2009, the Members reached consensus on trying to develop an EERP with an assortment of energy efficiency measures and programs. In June 2009, the Brazos Electric Board of Directors approved implementation of the EERP with a September 2009 start date.

Some of the identified benefits and program assumptions at the inception of the EERP were as follows:

1. Provide the Participating Members with cost effective energy efficiency programs for use by their respective retail members.
2. Brazos Electric to document the program design, develop forms, and provide education of available programs for Participating Members.
3. A Participating Member may select from the approved list of cost effective energy efficiency programs included in the EERP that the Participating Member wants to offer and market to its retail members.
4. Currently include only those programs that have a positive benefit/cost ratio as determined by GDS' analysis of specific measures included in its study.
5. Limit the administrative costs of the programs and maximize the incentives to the end-use retail member that participates in the energy efficiency program.
6. Enables Participating Members to choose eligible programs they prefer to include in their respective member services program.
7. A rebate program is easier to administer at the G&T level resulting in lower costs with a larger percentage of funds available for incentive rebates.
8. Centralized measurement, verification and incentive rebate processing.
9. Potential for economies of scale purchasing.
10. Incentive rebates and administrative costs limited to the allocated EERP annual budget for each Participating Member based on the Participating Member's previous year's MWh sales multiplied by the applicable surcharge rate.

Eligible Energy Efficiency Measures

Below are the specific energy efficiency measures that have been approved for the Brazos Electric EERP for 2013. The incentive levels developed by the independent consultant in its Energy

¹ NRECA's adoption of resolution 09-f-1, Wise and Innovative Energy Use, details energy innovation as a four-legged platform consisting of conservation, energy efficiency, demand response and distributed resources.

Efficiency Study were based on a 30% reimbursement of the incremental cost of the energy efficient measure.

CFL and LED Lighting (Bulbs)

Program	Incent	Admin	Total	Program B/C Ratio	MWH Savings 2013	Summer Pk MW Savings 2013
CFL/LED	\$1.25	\$0.50	\$1.75	5.66	39,396	4.03

Compact Fluorescent & LED Lighting: Residential and commercial application of compact fluorescent lighting (“CFL”) and light-emitting diode (“LED”) bulbs present a significant opportunity for energy and maintenance savings. On a per lamp basis, CFL/LED lamps are generally 75 percent more efficient and can last up to ten times longer than incandescent bulbs. In addition, CFL/LED bulbs produce about 75 percent less heat, so they are safer to operate and can cut energy costs associated with home cooling. Dimmable and 3-way CFL/LED bulbs are also eligible.

The Member can submit a RRR to Brazos Electric for the incentive rebate after CFL/LED bulbs are purchased for distribution to retail members.

HOME ENERGY AUDIT

Program	Incent	Admin	Total	Program B/C Ratio	MWH Savings 2013	Summer Pk MW Savings 2013
Home Energy Audit				2.08	5,575	1.27
CFL/LED	\$1.25	\$0.50	\$1.75			
Low Flow Showerhead	\$10.00	\$5.00	\$15.00			
Low Flow Faucet Aerators	\$5.00	\$2.50	\$7.50			
Water Heater Blanket	\$15.00	\$7.50	\$22.50			
Pipe Wrap	\$10.00	\$5.00	\$15.00			
HVAC Tune-up	\$100.00	\$50.00	\$150.00			

All incentive rebates for the Home Energy Audit (excluding the HVAC Tune-up) will only apply for those homes that have **residential electric water heating only**. The eligible energy efficiency measures are: Low Flow Showerhead, Low Flow Faucet Aerators, Water Heater Blanket and Pipe Wrap. While Brazos Electric has no specific information or knowledge on this issue, some have raised a concern that some manufacturers may consider the use of a water heater blanket to void the warranty for the hot water heater. Members can submit a RRR to Brazos Electric for reimbursement after Low Flow Showerhead, Low Flow Faucet Aerators, Water Heater Blanket and/or Pipe Wrap are purchased for distribution to retail members. Members can submit a RRR to Brazos Electric for the incentive rebate for the HVAC Tune-up program after the Member determines that the tune-up was completed at the retail member’s residence in accordance with the tune-up requirements described below, as applicable.

Low Flow Showerheads: An existing showerhead is replaced with a new unit that has a low-flow rate (less than 2.0 gallons/minute). Significant savings in hot water use can be achieved by installing low-flow showerheads and faucets. The single best action is to replace old showerheads as showers use 37% of the hot water in typical U.S. homes. Members should procure and install the replacement showerheads in the home. Retired showerheads should be removed and retained by the Member.

Low Flow Faucet Aerators: An existing faucet is replaced with a new unit that has a low-flow rate (less than 1.5 gallons/minute in bathrooms and less than 2.2 gallons/minute in kitchens). Members should procure and install the replacement aerators in the home.

Water Heater Blanket: Water heater blankets are designed to wrap around an existing water heater tank to improve insulation, prevent heat loss, and save energy. Installing an insulating blanket can reduce standby loss (heat lost through the walls of the tank) by as much as 25-40%. Members should procure and install the water heater blanket.

Pipe Wrap: Insulating hot water pipes will reduce losses as the hot water is flowing to the faucet and, more importantly, it will reduce standby losses when the tap is turned off and then back on within an hour or so. Pipe wrap will conserve energy and water that would normally be lost waiting for the hot water to reach the tap. Energy loss still occurs after pipe wrap has been installed, though to a smaller degree than the losses observed in non-insulated pipes. Members should procure and install the pipe wrap on all exposed and accessible hot water lines.

HVAC Tune-Up: HVAC tune-up and maintenance helps to keep heat pump and central air conditioning units running at top efficiency, prevent equipment failures, and extend the life of the equipment. A tune-up by a service professional can improve unit efficiency by as much as 20%. An annual HVAC tune up includes: checking and correcting the unit's refrigerant pressure and tubing, checking and adjusting belt tension, cleaning and lubricating the indoor blower unit, replacing filters, cleaning inside the "A" coil, and checking the thermostat, wiring, and other electric parts. A receipt from a qualified contractor stating that the above work was completed should be provided to the Member.

ENERGY EFFICIENT NEW HOME CONSTRUCTION

Program	Incent	Admin	Total	Program B/C Ratio	MWH Savings 2013	Summer Pk MW Savings 2013
Energy Star	\$500.00	\$50.00	\$550.00	1.00	4,908	1.10

Energy Efficient New Home Construction: The Residential Energy Services Network ("RESNET") Home Energy Rating Standards ("HERS") of Practice establish minimum and uniform standards for home energy raters who are certified by RESNET- accredited rating providers. Home energy ratings performed to these standards of practice are intended to provide the home owner/builder with a certified rating according to the RESNET's Mortgage Industry National Home Energy Rating Standard. These standards are posted at <http://www.resnet.us/standards/mortgage>.

(HERS RESNET Certified Rating) - Nationally, for a home to be labeled as ENERGY STAR®, it must achieve a HERS score of 86 or lower to qualify or be at least 15% more efficient than the local minimum energy code.

(Energy Star® Home Rating) - New homes are designed to be built to Energy Star® standards: at least 15 percent more energy efficient than those built to the **2009** International Energy Conservation Code (“IECC”).

Savings are based on heating, cooling, and hot water energy use and are typically achieved through a combination of the following: high performance windows, controlled air infiltration, upgraded heating and air conditioning systems, tight duct systems, high efficiency water heating equipment, and high efficiency building envelope standards. Energy Star® homes also encourage the use of energy-efficient lighting and appliances. These features contribute to improved home quality and homeowner comfort, and to lower energy demand and reduced air pollution. The Member should receive an Energy Star® Certificate or an HERS Certificate with an overall score of 86 or less to qualify a new home for the program. Members can submit a RRR to Brazos Electric for the incentive rebate for the Energy Efficient New Home Construction program after receipt of verification that the new home meets the standards set forth above for the residential retail member’s served by the Member.

CEILING INSULATION (SPACE HEATING & COOLING)

Program	Incent	Admin	Total	Measure B/C Ratio
Insulation Upgrade	\$275.00	\$25.00	\$300.00	1.16

Ceiling Insulation: Ceiling insulation levels vary greatly depending on the age of the home, type of insulation, and activity in the attic (*i.e.*, using the attic for storage and HVAC equipment). To be eligible for this rebate, the existing insulation must be less than or equal to R8 (3.75 inches of insulation or less) and must be improved to R38 or greater (approximately 17 inches or greater of insulation). Incentive rebates for this program are limited to ceiling insulation upgrades for single family homes and not for mobile homes; further, the upgrades only apply to electric air conditioners with electric resistance heating and cannot be used in situations where a heat pump is installed as a primary heating source. Members can submit a RRR to Brazos Electric for the incentive rebate for the Ceiling Insulation program after the Member determines that the installation was completed at the retail member’s residence in accordance with the preceding requirements.

HIGH EFFICIENCY ELECTRIC HEAT PUMP (SPACE HEATING & COOLING)

Program	Incent	Admin	Total	Measure B/C Ratio
High Efficiency Heat Pump				
15 SEER Heat Pump	\$100.00	\$50.00	\$150.00	
16+ SEER Heat Pump	\$200.00	\$100.00	\$300.00	

High Efficiency Electric Heat Pumps: Electric heat pumps operate by transferring heat from one place to another. In the heating mode, a heat pump extracts heat from outside a residence and delivers it to the house. Like a furnace, most heat pumps work with forced warm-air delivery systems. Heat pumps can also be operated to cool a house during summer months. In the cooling

mode, the cycle is reversed and heat is taken from the house and transferred to the outside air. Because heat pumps rely on the outside air as the heat source in the wintertime, they are much more common in warmer climates.

Heat pumps are rated for both heating and cooling – both in terms of capacity and efficiency. Heating efficiency is indicated by the heating season performance factor (“HSPF”). Cooling efficiency is indicated by the seasonal energy efficiency rating (“SEER”). Both indicate the relative amount of energy needed to provide a specific heating or cooling output.

15 SEER High Efficiency Heat Pumps: For this program, the baseline replacement model remains at HSPF 8.2 and SEER 14. The 15 SEER High Efficiency Heat Pump must have a HSPF of 8.2 or greater and a SEER of 15.

16 SEER High Efficiency Heat Pumps: For this program, the baseline replacement model remains at HSPF 8.2 and SEER 14. The 16 SEER High Efficiency Heat Pump must have a HSPF of 9.0 or greater and a SEER of 16 or greater.

The incentive rebates for this program apply for replacement of existing HVAC equipment at any residential home (including mobile homes) and new home construction. The retail member must obtain a receipt with the Air-Conditioning Heating and Refrigeration Institute (“AHRI”) designation of the qualifying installation from the retail member’s contractor to present to the Member for verification purposes. This incentive rebate is not applicable for homes that use natural gas, propane or other fossil fuel for heating.

The incentive rebates for this program are as follows: (1) the 15 SEER rebate is applicable to any unit purchased and installed with (a) a SEER equal to or greater than 15, and (b) a HSPF equal to or greater than 8.2; and (2) the 16 SEER rebate is applicable to any unit purchased and installed with (a) a SEER equal to or greater than 16, and (b) a HSPF equal to or greater than 9.0. Members can submit a RRR to Brazos Electric for the incentive rebate for the High Efficiency Heat Pumps program after the Member determines that the installation was completed at the retail member’s residence in accordance with the preceding requirements.

ENERGY STAR ROOM AIR CONDITIONERS

Program	Incent	Admin	Total	Measure B/C Ratio
Energy Star Room A/C	\$30.00	\$0.00	\$30.00	2.11

Energy Star Room Air Conditioners: Room air conditioner units are typically mounted in a window so that part of the unit is outside and part is inside. An insulated divider to reduce heat transfer losses typically separates the two sides. The outdoor portion generally includes a compressor, condenser, condenser fan, fan motor, and capillary tube. The indoor portion generally includes an evaporator and evaporator fan. The minimum federal standard used in this analysis (based on model type and capacity) is an Energy Efficiency Ratio (EER) of at least 9.8. Currently, units with an EER of 10.8 are eligible for the ENERGY STAR® label. This analysis assumed a room air conditioner cooling capacity of 8,000 Btu/hr and 1,926 full-load cooling hours (Dallas climate zone).

ENERGY STAR DISHWASHER (Electric Water heating Only)

Program	Incent	Admin	Total	Measure B/C Ratio
Energy Star Dishwasher	\$15.00	\$0.00	\$15.00	1.29

Energy Star Dishwasher: Dishwashers exceeding minimum qualifying efficiency standards established under Energy Star Program with an Energy Factor (EF) $\geq .65$ (versus the current federal standard energy factor $\leq .46$). Energy Star labeled dishwashers save energy by using both improved technology for the primary wash cycle, and by using less hot water to clean. Construction includes more effective washing action, energy efficient motors and other advanced technology such as sensors that determine the length of the wash cycle and the temperature of the water necessary to clean the dishes. In addition, a high efficiency dishwasher can save approximately 635 gallons of water a year if used to run an average of 4 loads per week. This measure is limited to homes having electric water heating and dishwashers.

HIGH EFFICIENCY WATER HEATER

Program	Incent	Admin	Total	Measure B/C Ratio
High Efficiency Water Heater	\$25.00	\$0.00	\$25.00	1.10

High Efficiency Water Heater (stand-alone): In this measure, baseline replacement stand alone electric water heaters are replaced with high efficiency stand alone storage tank water heaters. Storage water heaters work by heating up water in an insulated tank. However, because heat is lost through the walls of the storage tank, energy is consumed even when no hot water is being used. New high-efficiency storage water heaters contain higher levels of insulation around the tank, reducing standby losses. In this analysis a baseline replacement model (EF=.90) is replaced with a high efficiency model (EF=.94). This measure applies to homes operating primarily electric heating systems and electric water heaters. Heat pump water heaters qualify for this rebate since they have an efficiency greater than .94. (Note: Does not apply to electric tankless water heaters.)

COMMERCIAL LIGHTING (T-8 BULB REPLACEMENT)

Program	Incent	Admin	Total	Avg Measure B/C Ratio
32w to 28w Bulb Upgrade	\$1.00	\$.50	\$1.50	1.09
32w to 25w Bulb Upgrade	\$1.50	\$.75	\$2.25	1.91

T-8 Commercial Bulb Replacement: A variety of high efficiency fixtures, ballasts and lamps exist in the market today, producing the same amount of lumens, while consuming less electricity. Deemed lighting savings are mature components of utility-sponsored demand-side management offerings around the country. This measure considers BULB REPLACEMENT only, not replacement of fixtures or ballasts.

Numerous commercial and industrial buildings already have T8 bulbs and ballasts, but are looking for a low-cost way to save energy. Standard T8 bulbs typically sold as 32 watt bulbs, but can be replaced with 28 watt or 25 watt bulbs to save energy immediately. Utilities that are currently

running these programs offer a \$1.00 incentive to change out to a 28 watt bulb and a \$1.50 incentive for a 25 watt bulb.

COMMERCIAL LIGHTING (FIXTURE UPGRADES)

Program	Incent	Admin	Total	Avg Measure B/C Ratio
Fixture Upgrade(per watt saved)	\$.20	\$.10	\$.30	2.95

A variety of high efficiency fixtures, ballasts and lamps exist in the market today producing the same amount of lumens while consuming less electricity. Deemed lighting savings are mature components of utility sponsored demand-side management offerings around the country.

Many different types of energy efficient fixtures exist today. The Commercial Lighting Fixture Upgrade program measures the difference between the original fixture and the new fixture in base wattage. Incentive rebates are calculated based on this difference. Due to the many potential variations of fixture upgrades for lighting, this program does not specifically designate the eligible incentive rebate for a particular fixture types. Rather, the incentive rebate is calculated using the savings in base wattage comparison between the original and new fixture.

The Member should work with its commercial retail member to perform a detailed pre- and post-audit to verify base wattage differences and upgrade verification. Members can submit a RRR to Brazos Electric for the incentive rebate for the Commercial Lighting Fixture Upgrade program after the Member determines that the installation was completed at the commercial member's location in accordance with the preceding requirements.

A non-exclusive list of potential upgrade items are listed below:

Super T8 Fixture - from 34W T12; from standard T8: High-Performance or Super T8 lamp/ballast systems have higher lumens per watt than standard T8 systems. This results in lamp/ballast systems that produce equal or greater light than standard T8 systems, while using fewer watts. When used in a high-bay application, high-performance T8 fixtures can provide equal light to high intensity discharge high-bay fixtures, while using fewer watts.

T5 Fluorescent High-Bay Fixtures; Troffer/Wrap; Industrial Strip; Indirect: A T5 high-bay fixture has a fixture efficiency of over 91%, while a metal-halide fixture has a fixture efficiency of approximately 70%. By using a more efficient fixture, a space can be lit with fewer watts or fixtures. Typically, a 4-lamp F54T5HO system using 240 watts will provide as much light on a target surface as a standard 400 watt metal-halide fixture using 455 watts.

Induction Fluorescent 23W: Inductive fluorescent lamps are white light sources with very good color rendering and color temperature properties. These lamps are energy efficient and offer extremely long life (over 100,000 hours), good lumen maintenance characteristics, and instant-on capability. The lamp enclosure is called a "vessel" that varies in shapes and is coated on the inside with phosphor. Dimming capability is already available in Europe and will be available in the near future in the United States. They are powered by a small generator (about the size of a fluorescent ballast) attached to the lamp via a short fixed-length cable. The generator induces a current in the lamp which causes it to glow (there are no electrodes to wear out). The larger, diffuse nature of

these sources makes them excellent for lighting larger volumes and surfaces. They are often used in place of low- to medium-wattage high intensity discharge sources because of the instant-on capability and reduced maintenance associated with the longer lamp life. This lamp source has promising application for indoor and outdoor lighting applications.

Exterior High Intensity Discharge: Exterior metal halide (“MH”) or high-pressure sodium (“HPS”) high intensity discharge fixtures less than or equal to 100 watts. Assumes an efficient high intensity discharge 90 W bulb replaces a baseline quartz halogen 200 W bulb.

Electronic High Intensity Discharge Fixture Upgrade: This measure assumes that a 320 W Pulse Start Metal Halide (MH) high intensity discharge light fixture replaces a standard 400 W high intensity discharge fixture.

Halogen Infra-Red Bulb: A new development in halogen technology is the advent of Infra-Red bulbs. Available only in PAR30, PAR38, and MR16 type bulbs, it is used for spot-lighting, often in museums, retail establishments, and restaurants. The technology generally offers around 20% energy-savings, and longer lamp life.

Metal Halide Track: A metal-halide track head produces equal or more light as compared to halogen track head(s), while using fewer watts. Typically, a 39 watt PAR20 metal-halide track head using 43 watts can be used in place of three 50 watt halogen PAR20 track heads.

Integrated Ballast MH 25W: Integrated ballast 25W Par 38 metal halide lamps are three times more efficient than the Par 38 halogen lamps that they replace. Light output is comparable and the 10,500 hour life of the metal halide lamps is up to three times longer than standard halogens. Very good color rendering of 87 and a crisp white light (3000K) make this a good replacement lamp for general, ambient or accent lighting. The integrated ballast allows for an easy upgrade from a halogen Par 38. Due to the high pressure and operating temperature of metal halide lamps, there are some safety considerations concerning these efficient lamps.

Lighting Power Density: Efficient lighting with a reduced wattage compared to the baseline, other than controls. This methodology is generally applied to commercial new construction and remodel or renovation of existing buildings, including both facilities that are and are not subject to Act 250 review.

LED Exit Sign: Exit signs illuminated with light emitting diodes (“LEDs”).

Traffic Signal Upgrades: Traffic signals illuminated with LEDs save energy over the traditional light bulb traffic signals. Several utilities across the country have initiated programs for this type of upgrade.

LED Freezer/Display Lighting: Replacing standard bulbs in freezer display departments with LEDs allows both energy savings from light and heat. Further, several studies indicate that LED lighting in freezer sections actually provide better lighting colors for consumers.



TRI-COUNTY

Electric Cooperative, Inc.

"A Commitment to Service and Savings"

Central Headquarters Office / 600 N W Parkway / Azle, Tx 76020 / Ph:(817)444-3201 or 1-800-367-8232 Fax # (817)444-3542
Southwest District Office / 1623 Weatherford Hwy. / Granbury, Tx 76048 / Ph:(817)279-7010 / Fax # (817)279-7012
Northeast District Office / 4740 Keller Hicks Rd. / Fort Worth, Tx 76244 / Ph:(817)431-1541 / Fax # (817)431-9680
B-K District Office / 419 N. Main, P O Box Drawer 672 / Seymour, Tx 76380 / Ph: (940)888-3441 / Fax # (940)888-3820

TRI-COUNTY Electric Cooperative, Inc. EERP Rebate Applications Year 2014



TRI-COUNTY

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Energy Efficiency Rebate Program

Application for Rebate Payment Effective January 1, 2013

Rebate payments are subject to suspension in the event that funds budgeted for the program are consumed.

HOME ENERGY AUDIT

Date: _____

Electric Service Account Number: _____ Ph: _____

Customer Name: _____

Address: _____ City: _____ State: _____ Zip: _____

Compact Fluorescent and L E D Lighting

Replace existing incandescent bulbs with CFL or L E D lighting.

Qualified Rebate: \$1.25 per bulb. Attach Purchase Receipt for CFL or L E D bulbs to application for rebate.

Low Flow Shower Heads

Replace existing shower head with a new one having a flow rate under 2 gallons per minute.

Qualified Rebate: \$10.00 per shower head, electric water heating only. Attach Purchase Receipt for Shower Head to application for rebate.

Low Flow Faucet Aerators

Replace an existing faucet with a unit that has a low-flow rate of 1.5 gallons per minute in bathrooms and less than 2.2 gallons per minute in kitchens.

Qualified Rebate: \$5.00 per faucet, electric water heating only. Attach Purchase Receipt for Faucet Aerators to application for rebate.

Water Heater Blanket

Install an insulating blanket on your existing electric water heater.

Qualified Rebate: \$15.00 per electric water heater. Attach Purchase Receipt for Insulating Blanket to application for rebate.

Pipe Wrap

Insulate all exposed hot water pipes to reduce heat loss.

Qualified Rebate: \$10.00 per electric water heater. Attach Purchase Receipt for Pipe Wrap Insulation to application for rebate.

Heating and Air Conditioning Tune-Up

A HVAC tune-up includes checking and correcting the unit's refrigerant charge, repairing leaks if required, cleaning and lubricating the blower unit, inspecting and cleaning of refrigerant coils, replacing filters, thermostat inspection, wiring inspection and duct work inspection.

Qualified Rebate: \$100.00 per unit, one HVAC Tune-up allowed for each Member's applicable delivery point.

Attach a legible copy of the invoice from a licensed HVAC contractor to application for rebate.



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RESIDENTIAL NEW HOME CONSTRUCTION

Date: _____

Electric Service Account Number: _____ Ph: _____

Customer Name: _____

Address: _____ City: _____ State: _____ Zip: _____

ENERGY EFFICIENT NEW HOME CONSTRUCTION

The Residential Energy Services Network ("RESNET") Home Energy Rating Standards ("HERS") of Practice establish minimum and uniform standards for home energy raters who are certified by RESNET- accredited rating providers. Home energy ratings performed to these standards of practice are intended to provide the home owner/builder with a certified rating according to the RESNET's Mortgage Industry National Home Energy Rating Standard. These standards are posted at <http://www.resnet.us/standards/mortgage>.

(HERS RESNET Certified Rating) - Nationally, for a home to be labeled as ENERGY STAR®, it must achieve a HERS score of 86 or lower to qualify or be at least 15% more efficient than the local minimum energy code.

(Energy Star® Home Rating) - New homes are designed to be built to Energy Star® standards: at least 15 percent more energy efficient than those built to the 2009 International Energy Conservation Code ("IECC").

Qualified Rebate: \$500.00, Energy Star Certificate or an HERS Certificate with a score of 86 or less must be provided by the builder for the residence applying for the rebate. A copy of the certificate must be attached to the application for rebate.



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CEILING INSULATION

Date: _____

Electric Service Account Number: _____ Ph: _____

Customer Name: _____

Address: _____ City: _____ State: _____ Zip: _____

CEILING INSULATION UPGRADE

This rebate is available to members living in conventional single family homes using electric air conditioning and resistance electric heat. Homes with R-8 insulation or less must increase insulation to a minimum of R-38 to qualify for the rebate.

A receipt from the contractor performing the upgrade must document existing insulation R-Value prior to upgrade and the resulting R-Value after the upgrade.

Qualified Rebate: \$275.00, per residence. A copy of the contractors invoice must be attached to the application for rebate.



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Energy Efficiency Rebate Program

Application for Rebate Payment Effective January 1, 2013

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HEAT PUMP INSTALLATION

Date: _____

Electric Service Account Number: _____ Ph: _____

Customer Name: _____

Address: _____ City: _____ State: _____ Zip: _____

HIGH EFFICIENCY ELECTRIC HEAT PUMP

On January 1, 2006, heat pump manufacturers were required to achieve a minimum performance of 13 SEER for cooling and 7.7 HSPF for heating to market equipment inside the United States. Members are encouraged to purchase equipment with better performance to reduce kW demand and energy consumption. Members requesting a rebate must provide a purchase receipt from a licensed HVAC contractor showing the brand name and model numbers of the equipment installed. The equipment efficiency will be certified by the Air-Conditioning Heating and Refrigeration Institute, (ARI) and a copy of the certification must accompany the sales receipt.

15 SEER Heat Pump, with a HSPF of 8.2 minimum. Qualified Rebate: \$100.00. A copy of the invoice showing brand name, model numbers of equipment and ARI certification must be attached to application for rebate.

16+ SEER Heat Pump, with a HSPF of 9.0 minimum. Qualified Rebate: \$200.00. A copy of the invoice showing brand name, model numbers of equipment and ARI certification must be attached to application for rebate.

ENERGY STAR ROOM AIR CONDITIONERS

Room air conditioners are typically mounted in a window so that part of the unit is outside and part is inside. The unit must be new with a minimum Energy Efficiency Ratio (EER) of 10.8 to qualify for the Energy Star label. To claim this rebate simply complete this form and attach a copy of the purchase receipt. Also include a copy of the Energy Star Certificate showing that the unit performs to the minimum EER. Rebate amount \$30.00.

ENERGY STAR DISHWASHER (Electric Water Heating Only)

New dishwashers exceeding the minimum qualifying efficiency standards established under the Energy Star Program with an Energy Factor (EF) Rating greater than or equal to .65. Energy Star dishwashers save energy by using both improved technology for the primary wash cycle, and by using less hot water to clean. These units include more efficient washing action, energy efficient motors and other advanced technology to reduce hot water and electricity consumption. To claim this rebate simply complete this form and attach a copy of the purchase receipt. Also include a copy of the Energy Star Certificate showing that the unit performs to the minimum .65 EF rating. Rebate amount \$15.00.



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Energy Efficiency Rebate Program

Application for Rebate Payment Effective January 1, 2013

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COMMERCIAL LIGHTING UPGRADE

Date: _____

Electric Service Account Number: _____ Ph: _____

Customer Name: _____

Address: _____ City: _____ State: _____ Zip: _____

COMMERCIAL LIGHTING FIXTURE UPGRADES

A variety of high efficiency fixtures, ballasts and lamps exist in the market today producing the same output of lumens while consuming fewer watts of electricity. Replacing existing lighting with new high efficiency lighting will result in a reduction in the number of watts of electricity needed to operate the lighting.

Qualified Rebate: \$0.20 per watt saved per fixture. Details on existing fixtures, bulbs and ballasts must be included with application for rebate and information on replacement fixtures, bulbs and ballasts. This information will be used to calculate the watts saved per fixture and the number of fixtures being upgraded for each class. This information must be attached with the application for rebate.

COMMERCIAL LIGHTING (T-8 BULB REPLACEMENT Remove 32 Watt Bulb Upgraded to 28 Watt)

Qualified Rebate: \$1.00 per bulb. Details on the existing fixtures and the number of 32 watt bulbs being removed and replaced with 28 watt bulbs must be included with application for rebate. A paid receipt from the contractor performing the upgrade must also be provided and attached to the application for rebate.

COMMERCIAL LIGHTING (T-8 BULB REPLACEMENT Remove 32 Watt Bulb Upgraded to 25 Watt)

Qualified Rebate: \$1.50 per bulb. Details on the existing fixtures and the number of 32 watt bulbs being removed and replaced with 25 watt bulbs must be included with application for rebate. A paid receipt from the contractor performing the upgrade must also be provided and attached to the application for rebate.

TRI-COUNTY Electric Cooperative, Inc.

Water Heater Rebate Form

MEMBER INFORMATION:

Customer Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____ Phone: _____

Electric Account Number: _____

Installation Information:

Manufacturer: _____ Model No: _____

Serial Number: _____

Installation Address: _____

Place of Purchase: _____

Date of Installation: _____ Tank Warranty, (Years): _____

Energy Factor Rating: _____ Rebate Amount: _____ ARI Page No: _____

Approved By: _____ Date: _____ Copy to A/P: ☐

Rebate Qualifications: Minimum tank size is 40 gallons, Energy Factor Rating .90 or above, heating elements must be upper and lower 4500 watt, minimum tank warranty 5 years with one year on parts and labor.

A copy of your sales or installation receipt must accompany this request for rebate. The rebate is for Tri-County Electric Cooperative, Inc. members only. The water heater must be installed at a service address which is receiving electric service from Tri-County Electric Cooperative. Once the water heater is installed, return the completed form to Tri-County Electric. A cooperative employee may visit the location to confirm installation, please allow up to three weeks for processing of your rebate request. All rebates will be paid by check to the member receiving service.



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TRI-COUNTY Electric Cooperative, Inc

EERP Web-Site Conservation

Year 2014

ENERGY AUDITS

Tri-County Electric Cooperative, Inc. offers its members free home energy audits to help you keep your electric bills down and improve the energy efficiency of your residence all year round.

Here's what we do:

We will come to your home and evaluate and discuss with you your energy usage and electric bills as well as evaluate the energy efficiency ratings of your major appliances, your heating and cooling systems, your lighting systems, and your water heating units and windows.

We will offer suggestions on the cost-benefit of replacing your existing systems and offer you recommendations on how to conserve energy. We even offer rebates to members who improve the energy efficiency of their home.

Remember, small air leaks around your home can add up to bigger electric bills during the summer and winter months!

For more information call your District Office ([click here](#) for District Office Locations and Phone Numbers) or email us at customer_service@tcectexas.com.

Energy Audits

Efficiency Rebates

Energy Saving Tips



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TRI-COUNTY Electric Cooperative, Inc.

Bill Insert Topics Conservation

Year 2014



TRI-COUNTY Electric Cooperative, Inc.

" A Commitment to Service and Savings "



A new logo which grabs from the early years was combined with our current logo in recognition of the Cooperative's 75th anniversary.

Uniforms are an important part of every team's signature and they do more than identify the players. Tri-County Electric Cooperative employees are in the field working to keep the power flowing 24 hours a day seven days a week. Uniforms, employee identification badges and vehicle identification help protect our members by assuring them that the TCEC team is working to keep the lights on.

8003766401

In recent months we have been contacted by members that said a man wearing a hard hat said he worked for the electric company and needed to check their electric service to make sure everything was ok. They were not in uniform, the truck was not displaying the cooperative name and logo and they closed the door and called the cooperative's office. The office quickly checked to see if an open service order was logged on their account. When no service order was found the member was instructed to call 911.

800752473

This scheme ended better than some because law enforcement apprehended the person posing as an employee of the cooperative attempting to swindle money by telling them they had a serious electrical problem that needed to be fixed. To make the repairs he would need a payment of \$4,000.00. This type of activity is taking place in the field and also by telephone contacts.



Our team has changed uniform colors from blue to tan and a new logo in recognition of the Cooperative's 75th anniversary.

Telephone solicitors saying they work for the electric company have been calling TCEC members threatening to disconnect electric service unless they pay them right now. They prey on the elderly who are in fear of having no electricity so they give them a bank account number or credit card number thinking they are paying an electric bill. The account they provided is hit with fraudulent charges and the money is lost.

69004002

Remember Tri-County Electric Cooperative does not contact members demanding payment by telephone. Members needing to make payment by phone should contact 817-444-3201 and select option number 3 when the interactive voice response system answers their call.

TCEC employees do not come to your door demanding and collecting payment for electric service or for repairs made to restore service after a storm.

One of the most important things about the uniforms our employees wear is the protection that they provide against electric flash burns. The fabric used to make the uniform is conditioned to withstand extreme heat that can happen when an electric arc or flash occurs.

Our employees undergo years of continuing education so they know how to do their job safely. They work as a team and always look out for one another. They understand that the work they do can be dangerous and the proper planning and safety equipment must be used to keep them safe. A simple statement "Safety First" is a motto to live by.

800733769

October 2014 Member Information Bulletin



Changing or Cleaning HVAC Air Filters

The filter in your furnace or heat pump protects the blower, heating coils, and cooling coils from dirt. If these heating components get dirty, they are difficult and expensive to clean. Changing or cleaning your filters helps protect and extend the life of your system.

800741319

Your system's filter is located in either a return air grill in the living space, a main return grill near the furnace, or inside the furnace itself. It should slide out easily. If you can't find your filter, contact your heating or air-conditioning contractor.

800652647

Some inexpensive filters are made of fiberglass that are mounted in a cardboard frame. These are disposable, and you can buy them from home improvement stores. Other filters are washable, and are made of plastic fibers that are often blue in color. You can wash these with soap and warm water either in the bathtub or outdoors.

Your air-conditioning and heating system will operate at peak efficiency if the filters are kept clean. Most filters should be changed or cleaned every few months – check yours periodically to see how quickly they get dirty. Remember during hot and cold temperatures the system is running more frequently and moving more air through the filter. This will cause the filter to collect more particulate and can require more frequent replacement or cleaning.

It is much less expensive to maintain a strict filter maintenance schedule. Failure to replace clogged filters will result in coil contamination. This is a thick coating of dust and dirt which obstructs air flow through the air handler. Reduced air flow during the air conditioning cycle will cause excessive head pressure in the refrigeration cycle. This high pressure can cause coil failure or even compressor failure. Additionally a dirty coil will not exchange heat as quickly and results in longer run times increasing your electric bill. A fresh filter is much less expensive than paying to remove and clean the coil or replacing the entire HVAC system.

800710138

It Pays To Stay Informed!

Find your account number in our Member Information Bulletin and you will receive a \$20.00 credit on your electric bill. Simply contact one of the offices listed below and make them aware of your discovery.

It pays to stay informed!

800741498



From The Cooperative Kitchen

Pumpkin Cookie Pops



*** Ingredients ***

1/2 Cup of Butter, Softened
3/4 Cup Packed Brown Sugar
1/2 Cup of Sugar
1 Egg

1 Teaspoon of Vanilla Extract
1 Cup of Canned Pumpkin
2 1/2 Cups of All Purpose Flour
1 Teaspoon of Baking Powder
1 Teaspoon of Baking Soda
1 Teaspoon of Ground Cinnamon
30 Popsicle Sticks

1/3 Cup of Green Gumdrops, Quartered Lengthwise

*** ICING ***

4 Cups of Confectioners' Sugar
1/4 Cup of Water
Food Coloring Orange, Black, Purple, Green and Red

*** Directions ***

In a large bowl, cream butter & sugars until light and fluffy. Beat in egg & vanilla. Beat in the pumpkin. Combine the flour, baking powder, baking soda & cinnamon; gradually add to creamed mixture and mix well. (Dough will be soft).

Drop rounded tablespoons of mixture 2 inches apart onto a greased or parchment paper lined baking sheet. Insert popsicle sticks into the dough. Insert a gumdrop piece into the top of each of the pumpkin stems.

Bake at 350 degrees for 14 to 16 minutes or until set and lightly browned around the edges. Remove to a wire rack to cool.

In a mixing bowl combine confectioners' sugar and water mix until smooth. Remove 1/2 cup of frosting into another bowl; cover & let set. Stir orange food coloring into remaining icing. Spread over cookies & let stand for 30 minutes or until icing is set and dry.

Tint reserved icing with colors of your choice; use this icing to create jack-o-lantern faces



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Internet: www.TCECTEXAS.COM

Power Outage Reporting & Pay By Phone: 817-444-7617



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Central Air Conditioning Old Systems vs New Systems

240600101



Willis H Carrier built the first humidity control system in July of 1902. A great number of improvements have been made since then offering greater comfort and lower operating cost.

The people who remember summers without air conditioning are dwindling in numbers. The first air conditioning system invented was on July 17, 1902 by a young engineer named Willis H Carrier. He was a young Cornell University graduate tasked with finding a solution for a printing company in Brooklyn. The plant was having problems with print quality on their color printers. The east cost has a humidity problem and the printers laid down color in a four color printing process. Since the ink was applied one color at a time, it required pinpoint calibration to avoid poor print quality. The humidity variations caused the paper to shrink or grow, throwing the printers out of alignment, resulting in poor image quality. This forced the press operators to shut down, re-calibrate the presses then locate and destroy the sub-quality products that went through the press. Lost time and material was an expensive problem that needed a solution.

800737977

Carrier's first system was known as a humidity controller and cold air was a by-product of humidity reduction. His first system solved the humidity problem and word spread quickly. As the word got out other companies began clamoring for Carrier's machine.

By 1915 he was running his own company, Carrier Engineering Corporation. The young company was soon overrun with orders from hotels, department stores, theaters and eventually private homes. Among Carrier's early big ticket customers were the U. S. Congress, the White House and New York's Madison Square Garden.

800736227

The economic impact of air conditioning opened up the warm southern states as people settled in large numbers. Protected from the high temperatures of summer a population shift in turn changed the political balance of a nation. Even the nature of architectural design changed, with perhaps the most conspicuous example being the glass clad skyscrapers that dot almost every big-city skyline.

800728012

In the past 112 years air-conditioning equipment has evolved and continues to improve in both comfort and efficiency. Federal

regulations set minimum efficiency standards for equipment sold in the United State at 13 SEER. This Seasonal Energy Efficiency Ratio allows people purchasing equipment to evaluate the cost of operation between different models. Equipment is on the market from the minimum SEER of 13 to a highest performing system SEER of 21.5. The higher the SEER rating will provide the lowest annual cost of operation. Unfortunately the equipment with the highest SEER rating will also have a higher purchase price.

Single speed air conditioning systems are sized to keep your home at a design temperature between 72 and 75 degrees with an outside temperature of 98 to 100 degrees. The BTU output of the system must supply enough cold air to maintain the design temperature when the outdoor temperature is at the 100 degree mark. When the load calculations

are done correctly, the home will be able to maintain design temperature up to the limit on the outdoor maximum temperature. When temperatures gets above the outdoor design mark, the unit will run continuously and the indoor design temperature will start to rise.

8004131901

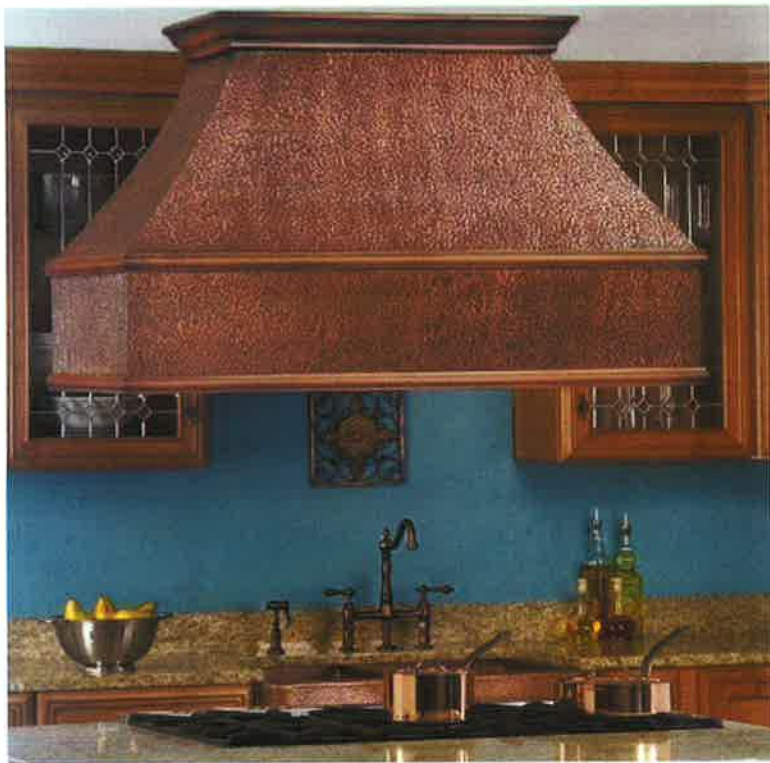
This design process requires us to run the larger equipment all the time even if outdoor temperatures are only in the 80 degree range. Running oversized equipment causes short cycling where the unit is constantly turning itself on and off. This is hard on the equipment and your pocket book.

Today we have a solution to this problem, two speed air conditioning systems. Depending on the manufacturer your outdoor condenser will be equipped with a single compressor fitted with a two speed motor or two compressors with stage 1 being about half the size of stage 2. The thermostat will always call stage 1 first and monitor the temperature in the home. If stage 1 is able to reduce the temperature in the home it will not be necessary to call on stage 2. Most manufacturer's have thermostats that allow you to set the temperature and also the humidity level. When stage 1 reaches the temperature setting it then looks at the humidity level. If it is high, the thermostat will instruct the air handler to reduce the fan speed which allows the surface of the coil to get colder. Humid air going through the cold coil will condense moisture from the home thus reducing humidity. This balancing act of temperature and humidity control provides a superior comfort level inside your home and eliminates the stress of short cycling your unit.

Heat Pump systems operating at 15 SEER qualify for a \$100.00 rebate and systems 16 SEER and above qualify for a \$200.00 rebate from TRI-COUNTY Electric Cooperative.

August 2014 Member Information Bulletin

Limit Exhaust Fan Use In Summer



Exhaust fans are very handy tools that help keep food odors out of the house when cooking. Many kitchen exhaust fans discharge tainted air into the attic or outdoors. With every cubic foot of air discharged from the house, an equal amount of replacement fresh air must be drawn into the house from outdoors.

If an exhaust fan is allowed to run after cooking, it will be removing conditioned air from the house which is replaced by unconditioned air from outdoors. The replacement air must then be cooled by the air-conditioning system which will increase the operating cost.

800639518

This same condition occurs when bathroom exhaust fans are left running. So use your exhaust fans, but use them wisely.



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Pay By Phone: 817-444-7617

From The Cooperative Kitchen



43833001



Grilled Summer Vegetable Medley

This side dish is our favorite way to fix summer vegetables. Cleanup is a breeze because it cooks in foil. It goes from the garden to the table in under an hour, and makes a great side dish with grilled steak or chicken.

... INGREDIENTS ...

- 1/4 - Cup of Olive Oil
- 1 - Teaspoon of salt
- 1 - Teaspoon Dried Parsley*Flakes
- 1 - Teaspoon Dried Basil
- 3 - Large Ears of Fresh Corn On The Cob, Cut Into 3 Inch Pieces
- 2 - Medium Zucchini, Cut Into 1/4 Inch Slices
- 1 - Medium Yellow Summer Squash Cut Into 1/4 Inch Slices
- 1 - Medium Sweet Onion, Sliced
- 1 - Large Green Pepper, Diced
- 10 - Cherry Tomatoes
- 1 - 4.5 Ounce Jar Whole Mushrooms, Drained
- 1/4 - Cup of Butter

... DIRECTIONS ...

In a large bowl, combine the oil, salt, parsley and basil. Add vegetables and toss to coat. Place on a double thickness of heavy duty foil about 28 inches by 18 inches. Dot surface of foil with butter. Fold foil around vegetables and seal tightly.

Grill, Covered over medium heat for 20 to 25 minutes or until corn is tender, turning once. Yield is 8 servings.

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800600742



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Lightning Strike Spectacular Terrifying Destructive

Thunder Storms are sometimes beautiful as streaks of energy move from cloud to cloud illuminating the night sky. Other times the storm can change and quickly become terrifying as bolts of lightning come crashing down destroying property and rattling windows, forcing everyone in its path to seek shelter. Lightning has been a part of mans life for as long as this earth has been inhabited. It probably provided man with fire and improved his quality of life many hundreds of years ago.

In 1752 Benjamin Franklin was concerned and attempted to study lightning to better understand what it was and what could be done to prevent structure fires caused by lightning strikes. His famous kite flying experiments proved that lightning was electricity.

He was credited with inventing lightning rods that were secured to roof tops and properly grounded to the earth using copper. The lightning rods did not stop lightning strikes but instead provided a less resistive path to ground keeping the energy away from the structure. His lightning rods were credited for preventing fires in communities which could be quickly ravished when a single building was set on fire. Most homes in the 1700's were constructed of wood and fires were fought with bucket brigades which were rather ineffective.



Most of Mr. Franklin's original lightning rods are now collectors items. Homes in the 1700's used oil lamps and no electric wiring was in the structure since electric delivery was not yet invented. Thomas Edison would later pioneer electric delivery into homes and businesses using alternating current.

Still today lightning is a destructive force causing billions of dollars in damage to our modern world each year. There are easy steps you can take to protect your home, property and life from lightning.

800742745

Avoid using hard wired telephones and bathing, washing your hands or dishes during a storm. Electricity follows through wiring and metal pipes, but water also conducts electricity so you could be electrocuted if you're touching water.

800687534

If lightning hits your house or nearby power lines, it can follow through the electric wiring, phone lines and cable television lines throughout your home. These hard wired connections provide a pathway into computers, televisions, stereos and other electronic devices. The best safeguard against electronics being damaged by lightning is simply to unplug them whenever you're expecting bad weather. Disconnect electrical, internet, antenna and satellite-dish connections from your equipment. This will isolate the equipment from the outside world and keep it safe.

Surge protectors help protect equipment from power spikes and distant lightning strikes that hit the electrical grid. But nearby close lightning strikes are so powerful it can jump through surge protectors. It's been known to jump across an entire room called side-flashing. When this happens, anything or anyone in its path could be in danger.

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Lightning rods protect a building from catching fire, not from electrical surges. They don't increase or decrease the chance of a lightning striking. They just provide a path for the electricity to reach the ground more safely. The rods at the top of the building are only the first part of a good system. Lightning hits the rods instead of the building itself because they're higher than other points and they provide a better path to ground through the ground wire connected to the rod with the other end imbedded in the earth. This better path to ground keeps the energy out of the building structure preventing fire.

If Your AC Unit Can't Breathe, It Can't Work Efficiently!

With summer officially on the calendar, it's important to make sure that your air conditioning equipment is operating at peak performance. A dirty outdoor coil is a good way to run up operating costs and repair bills. Make it a habit to check the surface of your outdoor condenser coil and make sure it is clean and moving plenty of air across the coil. Check coil for grass clippings, leaves, spider webs, cottonwood fibers and those pesky plastic shopping bags that blow around the yard and get sucked up into the air-conditioning coil.

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If the coil looks dirty, disconnect the power and rinse the coil with a garden hose. If it is extremely dirty, it might be necessary to use a soft brush and mild liquid dishwashing soap. Use care not to bend the coil fins when cleaning. Once the coil surface is clean, you can reconnect the power and the unit is ready to run.



Keeping the outdoor compressor free of dirt grass and other obstructions is important to reduce operating cost and prevent equipment failure.

If your equipment has a protective cover around the coil it can still be inspected by looking through the louvers. Cleaning may require the removal of the protective cabinet to gain access to the coil surface. On some units the cabinet is fairly easy to remove requiring nothing more than a nut driver and a bowl to keep track of the metal screws. With some manufacturers a professional service call may be required because the cabinet walls support the fan assembly requiring more tools and expertise when disassembling.

The indoor coil must also be kept clean and the best way to do that is by maintaining the air filter. Regularly scheduled filter replacement will keep the coil clean. If you can see the coil is blocked, a professional cleaning is recommended. On most units the coil must be removed to be properly cleaned.



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From The Cooperative Kitchen



800728566

This month's recipe was provided by Sheila Davis from Wichita Falls. She will receive a 60 Years of Home Cooking Cookbook, compliments of TCEC.



Southwest Summer Grilled Pork Chops

... Ingredients ...

- 4 - Teaspoons of Dried Minced Onion
- 2 - Teaspoons of Ground Cumin
- 1 - Teaspoon of Cornstarch
- 1 - Teaspoon of Chili Powder
- 1 - Teaspoon of Dried Minced Garlic
- 1/2 - Teaspoon of Dried Oregano
- 1/2 - Teaspoon of Paprika
- 1/4 - Teaspoon of Cayenne Pepper
- 2 - Teaspoons of Lemon Juice

... Directions ...

In a small bowl, combine the first eight of the above ingredients and rub over pork chops. In a large resealable bag, combine barbecue sauce and lemon; then place pork chops in bag and seal. Carefully manipulate pork chops in bag coating each evenly. Place pork chops in refrigerator for 1 to 2 hours.

800705239

Chops are best when cooked over an open flame so make sure to start the grill and clean the grate and coat it with cooking oil. Grill chops over medium heat for 4 to 5 minutes on each side with cover down. If you would rather use the oven, place chops on a rack approximately 4 inches from the heat. Broil for 4 to 5 minutes on one side and rotate. Insert a meat thermometer in one of the chops and cook until the internal temperature reads 145 degrees. When done remove chops from grill or oven and let stand for 5 minutes. Should provide six servings.

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8003562601



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Manufactured Homes and Energy Consumption

Some Cooperative members believe their electricity bills should be lower because they live in modest manufactured home. The fact of the matter is that manufactured homes, especially those manufactured before 1976, can consume much more than their fair share of energy. Here are some tips and suggestions to consider if you own or rent a manufactured home. These same energy saving tips will work on site built homes as well.



INFILTRATION is a serious problem for most manufactured homes. Settling caused by improper drainage or support piers that are not deep enough into solid soil will cause shifting. This movement makes doors and windows not close properly. A door or window that can not be properly closed is another serious problem and needs correction. Normally when the home is jacked up and re-leveled, doors and windows will work properly unless the stress of settling caused damage to the door or window. Drainage problems need to be corrected to prevent a reoccurrence of the problem. Support piers need to be deep enough to maintain stability,

otherwise re-leveling will be a constant necessity.

TEMPERATURE CONTROL The work load for your air-conditioning system is determined by the thermostat setting and the actual outdoor temperature. The difference between these two numbers is the amount of work your system must overcome. A thermostat setting of 78 to 80 degrees is recommended especially on hot days. If your home is suffering from high humidity, we recommend that you determine the source for the humidity and use exhaust ventilation to remove moisture from bathrooms and kitchen cooking areas. By reducing the humidity in the home our bodies own cooling system can do a more effective job of keeping us cool. The operation of a small dehumidifier could make the home more comfortable and uses less electricity than the central air-conditioning system. Using fans will also make higher thermostat settings feel more comfortable.



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AIR CONDITIONING is the largest user of energy for most homes. During the months of June through September high temperatures and humidity combine to increase the demand for air conditioning. For many families once the temperature gets above 90 degrees, the air-conditioning will not cut off until late evening after the sun has set. Temperatures inside the home begin to rise as the air-conditioning system is removing as much heat as possible, but ultimately more heat is coming in than the system is capable of removing. Selecting high efficiency heating and cooling equipment can reduce power consumption but requires a significant investment by the property owner. Making sure that only air from the conditioned floor space is being circulated through the system requires an inspection of the ductwork system.

DUCTWORK must be properly sealed so that it does not leak conditioned air outdoors. It is equally important to check the return air to make sure the air-conditioning unit is not drawing heated outdoor air into the system. We want to make sure that all duct joints and terminations are properly sealed so the system is only seeing air from the interior of the home. Loose joints, cuts and tears in the duct system will substantially increase power consumption and repairs should be a top priority.

FILTERS need to be kept clean to protect the indoor evaporator coil from becoming blocked with dust. In most systems it is possible to inspect the surface of the coil for dirt and contamination using a flashlight and mirror. A properly maintained filter keeps the aluminum coil clean and shiny. If the coil is blocked with debris, a professional cleaning is a good investment and will extend the service life of your system.



LIGHTING Are you still using the old style incandescent light bulbs? If so its time to try a compact fluorescent bulb. These bulbs use up to 75% less energy for the same amount of light. They cost a little more but last significantly longer. And since they are lower wattage they introduce less heat into the living area. If your den, dining room and kitchen is equipped with recessed lighting and the three rooms have a total of 10 recessed fixtures with a 75 watt bulb in each fixture, you are introducing 750 watts of heat to the home. This is the equivalent of a small space heater fighting against your air-conditioning. By replacing the 75 watt bulbs with 18 watt compact fluorescent, you are reducing the cost of lighting the rooms by 570 watts and stopping the introduction of 1,947 BTU's of heat. You save on lighting, cooling and bulb maintenance.

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May 2014 Member Information Bulletin



The Keller High School Band is hosting a patriotic benefit dinner and concert to honor those who have served our country. This event will take place in the Keller High School Cafeteria and Fine Arts Building and is open to anyone who would like to purchase tickets. Dinner will be catered by Hard Eight BBQ with desserts provided by Central Market. Additionally, we will host a Silent Auction and a test drive by Grubbs Infinity.

Adults \$20.00
 Children \$10.00 (12 & under)
 Senior Citizens \$15.00 (65 & over)
 Veterans \$15.00

Tickets must be purchased in advance.

If you would like to attend, please mail a check payable to "Keller Band Boosters" to the address shown below. Please note which dinner seating you would like to attend on your check (5PM, 6PM, or 7PM). If you have any questions feel free to contact Marie at the following e-mail address.

kellerpridebandboosters@gmail.com
 Mail Payment To:
 Keller Band Boosters
 P O Box 1573
 Keller, TX 76244

NOTICE!

TCEC members have been contacting the office reporting that they received a telephone call threatening to disconnect electric service, unless they return a call to a phone number provided by the caller and make payment.

This is a theft by phone scam and so far our members have hung up and called one of the cooperative offices shown below. Never be tricked by an inbound call that you did not solicit and provide your bank or credit card information to a unidentified party. The error can be costly!



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From The Cooperative Kitchen



This month's recipe was provided by Sheila Davis from Wichita Falls. She will receive a 60 Years of Home Cooking Cookbook, compliments of TCEC.



Hillbilly Western Burgers



... Ingredients ...

1/2 - Pound of Ground Beef
 Worcestershire Sauce
 1 - Egg
 1/3 - Package of Dry Onion Soup Mix
 1/2 - Teaspoon of Black Pepper
 2/3 - Cup of Cheddar Cheese
 1 - Can of Crescent Rolls

... Instructions ...

- 1: Preheat Oven to 375 Degrees
- 2: In a medium sized bowl mix 1/2 cup of cheese, onion soup mix, couple of dashes of Worcestershire sauce, pepper and ground beef.
- 3: Unroll the crescents. Place a round tablespoon of meat mixture toward the larger end of the crescent dough.
- 4: Wrap the meat with the crescent dough.
- 5: Place crescents onto a cookie sheet lined with parchment paper. Repeat until meat and crescents are all wrapped.
- 6: Brush the tops of the dough with an egg wash. Simply crack one egg in a bowl and whisk together until well blended. Add 1 tablespoon of water to the mix to thin.
- 7: Sprinkle the remaining cheese on top of the egg wash and bake for 10 to 15 minutes. Enjoy!

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US Average Annual Residential Electricity Use Continues A Decline & Here Are Some of the Reasons Why.

Homes in the United States are managing to use less electricity even though they are packed with more electric devices than ever before. Lets take a few minutes to understand how this can be possible.

Energy prices were increasing across the country and the need for a more energy efficient home was apparent. Federal and state governments were convinced that better construction codes would allow home owners to afford comfort for many years even if the cost of construction would increase. Savings in energy consumption would help fund higher construction costs. In 1992 the Energy Star Program was launched and engineers began designing better ways to build homes.

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The department of energy was active in the program and one of the first recommendations was to have computer manufacturers design software that would order systems into a sleep mode for the CPU and monitor during periods of non use. With compliance, the manufacturer was allowed to place the Energy Star logo on their equipment. Over the years the (DOE) Department of Energy periodically raised the bar and manufacturers had to comply with reduced energy use to keep the Energy Star logo on their product. The ENERGY STAR label is now on major appliances, office equipment, lighting, home electronics, new homes and both commercial and industrial buildings.

Our old style television sets were bulky, limited in size and used substantially more electricity than the new LCD flat screen systems. New technology for higher definition displays brought everyone the opportunity to enjoy theater like entertainment and at the same time reduced energy consumption by 80% when compared to the cathode ray tubes of the past. The same LCD flat screen monitors were replacing the bulky CRT monitors and netting the same savings in energy use.

Heating and cooling equipment was targeted and manufacturers were required to post new efficiency ratings on equipment sold in the USA. The new Seasonal Energy Efficiency Rating or SEER was being introduced to the buying public. As equipment manufacturers complied with the DOE mandate, the buying public now had the necessary information to make a purchase decision by looking at purchase cost and operating cost. DOE regulations set minimum 10 SEER performance for equipment sold in the USA and all manufacturers were required to comply. This bar was recently raised to 13 SEER and manufacturers were given several years notice, allowing time for compliance. Today HVAC equipment with SEER ratings of 24.5 are available for purchase. These systems will provide the same BTUs of cooling, but use less than half the amount of electricity of the old 10 SEER system.

Lighting is another area of significant change. The old style incandescent bulb is being replaced with CFL and LED bulbs that use 70% to 80% less energy. They also reduce air conditioning cost because they produce less heat inside the home. If you are burning ten 75 watt bulbs in your home, you are operating the equivalent of a small space heater in the summer time.

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New electronic devices like cell phones, tablets, and lap top computers are being engineered for portability and as a result manufacture's are reducing the amount of energy required to run the device. The first cell phone I used came in a leather bag and was about the size of a lunch box. It had a battery that provided minimal talk time and you had make sure to plug it into the vehicle to keep it on. You also had to learn where signals were available if you planned to make a call, and that was all it could do. The new smart phones can run for a couple of days before they require charging and the things you can do with them are almost unlimited.

More people are using more devices, and that is offsetting what would be a more dramatic reduction in power consumption. We can only wonder what the next 20 years of science and technology will be made available for our families.

8004292701



Are Electrical Hazards Cooking in Your Kitchen?

From coffee makers to toasters, blenders to waffle irons, microwaves to ovens — today's modern kitchen sports more electrical appliances than ever before. These appliances, like other electrical devices in your home, need to be operated safely and conscientiously in accordance with manufacturers' guidelines. As an increasing number of electrical appliances in our homes become necessities, our home's power circuits will grow more overloaded. This puts you and your family at risk. To ensure you don't have a potential safety hazard brewing in your kitchen, the Leviton Institute urges you to follow these important safety tips:

1. Unplug kitchen appliances, like toasters and coffee makers, when you're not using them and never allow appliances like a stove or microwave to remain running when you leave home.

2. Never use a fork, knife or other metal object that conducts electricity to clean debris from "live" kitchen appliances such as toasters and toaster ovens. For routine cleaning, make sure these appliances are switched off and disconnected before you clean their internal parts.

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3. Avoid using electricity near water and other liquids. Clean up all spills in or around an electrical appliance after making sure the power supply has been disconnected. Never submerge an appliance or its electrical cord or plug in water or any other liquid.

4. Install a sufficient number of GFCI's in your kitchen. GFCI's are designed to prevent shock hazards by interrupting power if electrical current leaks from a damaged cord or appliance.

5. Always check your kitchen appliances for damaged cords or plugs before you use them. Contact with a faulty or frayed power cord or a broken appliance can cause electric shock. If an appliance malfunctions or appears to be damaged in any way, make sure the appliance is disconnected from the power outlet and have it repaired or replaced immediately.

5689001

6. Never let power cords or plugs dangle over the edge of counters or come in contact with hot surfaces. Dangling cords are a danger to small children and pets who might pull on them. Kitchen appliances should never be placed near a hot gas or electric burner.

Keep your kitchen safe for family and friends and start baking a memory that everyone will enjoy.



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From The Cooperative Kitchen



800702176

This month's recipe was provided by Joan Klimont from Azle. She will receive a 60 Years of Home Cooking Cookbook, compliments of TCEC.

800732434



Quick Apple Cobbler

... INGREDIENTS ...

3 - Granny Smith Apples Peeled & Fine Diced

1 - Teaspoon Lemon Juice

1/3 - Cup of Brown Sugar

2 - Tablespoons Granulated Sugar

1/2 - Teaspoon Vanilla

1 1/2 - Teaspoons of Cinnamon

1/2 - Cup Chopped Pecans

2 - Tablespoons of Butter

1 - Can Grands Biscuits

... GLAZE ...

1 1/2 - Cups Powdered Sugar

1/4 - Cup of Milk

1 - Teaspoon of Vanilla

Add above ingredients into a large sauce pan over medium heat. Cook stirring occasionally until apples have browned and softened and sauce has thickened. Set aside and allow time to cool.

Preheat oven to 350 degrees, spray 9 X 12 loaf pan with non stick spray. Using a knife, slice each biscuit in half maintaining the circular shape. Spoon about 1 tablespoon of ingredients on biscuit slices, fold in half and layer into loaf pan open end up. Sprinkle chopped pecans over the top and apply slices of butter on top.

Cover pan with foil and bake for 30 minutes. Remove foil and bake an additional 15 minutes or until biscuits are brown and done. Let cool for 5 minutes and drizzle glaze over top.

Enjoy and add some ice cream if it sounds good to you.

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Travel was difficult from December 05 through December 11, especially in rural areas where minimal traffic did not dissipate the ice.

Freezing Rain Sleet & Snow Engulf The TCEC Service Area.

Mother nature gave North Central Texas a cold blast of winter weather well before winter even officially arrived. The cold front moved in on Wednesday evening December 04 and rain started falling along with the temperatures. The temperatures dropped below freezing and the rain kept coming, and ice began accumulating on trees and power lines. By Friday the temperatures dropped well below freezing and the rain turned to sleet mixed with light snow for the western part of the metroplex.

8004316601

In weather like this, the importance of electric reliability is a top priority. The right of way clearing done to keep ice laden trees out of power lines paid off and the number of power outages for the period of December 04 to December 11, 2013 came to a total of 24 events and involved a total of 133 members.

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The cooperative's two year work plan identifies areas of the distribution system in need of upgrading well before load growth exceeds the capacity of the circuit to supply sufficient amounts of electricity. Vegetation management is extremely important especially when icing conditions descend on the TCEC service area.

Maintaining clearance around power lines is the responsibility of our right of way crews and this work is done on a daily basis throughout the year.



Right of way maintenance is a critical component of system reliability and safety.

The Central office located in Azle is staffed 24 hours a day seven days a week and emergency crews are on stand by with trucks equipped for bad weather running. Emergency crews are stationed in Azle, Fort Worth, Granbury, and Seymour. Each office is a full service facility stocked with materials and equipment needed to make repairs and restore electric service.

800676600

Your electric cooperative is committed to keeping the lights on and system

upgrades and improvements are at the forefront of this commitment. System automation monitors each distribution circuit reporting circuit status, by microwave or radio signal to each of our offices and our line crews. Radio communications between trucks and the local offices allows a lineman to identify the problem and if necessary order the material, equipment and manpower needed to make repairs.

Substation and major distribution reclosers are monitored and reported to the office if a fault trip occurs. Once repairs are made the superintendent can send a command to the recloser to close the breaker and restore electric service reducing down time.

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Members can report trouble by telephone which will be answered by our Interactive Voice Response system. The IVR will identify your electric account by telephone number or your electric account number. Once you notify us of the problem, the information will be added to the Responder data base and service crews will have a record of the power outage. To report a power outage you can use any of the numbers listed below and take note of the telephone number we show on our monthly electric bill. If your phone number is not correct, please send us an e-mail with the correct information so we can update your records.

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January 2014 Member Information Bulletin



Using Your Electric Space Heater Safely!

An electric space heater can increase comfort during cold months, especially in garages, workshops and other areas that may not have central heating. But using space heating requires some attention to safety as well as comfort. Before you purchase an electric space heater make sure it has the following safety features.

- An automatic safety switch that will turn the unit off if it is tipped over.
- An overheat sensor that shuts off the heater if it gets too hot.
- A low surface temperature to protect family and pets from burns.
- A screen or grill to prevent kids from reaching inside with fingers or toys.
- A label or tag noting the heater has been tested and approved by an independent testing lab.

If you already have a space heater, check it to make sure it offers the above safety features.

Check the power cord for worn insulation; look carefully for weather cracks or hard brittle areas along the length of the cord. If you find a problem, don't try to repair it with tape and never attempt to replace the cord yourself.

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Never use an extension cord with an electric space heater.

Keep the heater away from water sources or damp places to avoid potentially deadly electric shock.

Keep the heater at least three feet away from curtains, sofas, magazine racks or any other potentially flammable surface.

Remember that a small 1,500 watt space heater is capable of using 1,080 kWh if placed in an area where it will run continuously for 30 days. At a cost of 8.25 cents per kWh, that one heater can use \$89.00 worth of electricity.

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From The Cooperative Kitchen



800733911

This month's recipe was provided by Brenda Barton from Bridgeport. She will receive a 60 Years of Home Cooking Cookbook, compliments of TCEC.



Southwest TACO Soup

... Ingredients ...

1/2 - Pound Lean Ground Beef, Browned

1 - Medium Onion

2 - Cans of Pinto Beans

2 - Cans of Diced Tomatoes,
You can purchase tomatoes with onion and green chillies and omit those two items from recipe.

2 - Cans of Yellow Hominy or Corn

1 - Small Can of Green Chillies

1 - Package of Taco Seasoning

1 - Package of Dry Ranch Dressing or Fiesta Ranch

... Instructions ...

Combine all of the above ingredients in a large pot and heat. A crock Pot works very well. Guaranteed to keep you warm on a cold afternoon.

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